



**MODERNIZATION SOLAR**

# Space Energy Base Station





## Overview

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### What is space-based solar power (SBSP)?

The concept of space-based solar power (SBSP) has been around for decades, but China is the first country actively working to build an operational system. Here's how it works: Solar panels in space collect sunlight – Unlike Earth-based solar farms, space stations are not affected by clouds, weather, or nighttime.

### What is space-based solar power?

The plan involves constructing a colossal 1-kilometer-wide solar power station in geostationary orbit, approximately 36,000 kilometers above Earth. This endeavor aims to harness solar energy more efficiently than terrestrial methods, potentially ushering in a new era of clean, uninterrupted power supply. Why Space-Based Solar Power?

### How do space-based solar power stations work?

"This is an incredible project to look forward to." Space-based solar power (SBSP) stations work by using a system of mirrors to concentrate sunlight onto panels, which then generate electricity. The electricity is then converted to microwave radiation and beamed to a fixed antenna on Earth.

### Will China build a solar power station in space?

It's coming to a cosmos near you in 25 years! China is currently planning to build a gigantic solar power station in space. To get parts of the array out of our atmosphere, scientists are working on a reusable heavy lift rocket called the Long March-9. The solar array project is just one small part of China's larger space mission.



## Space Energy Base Station

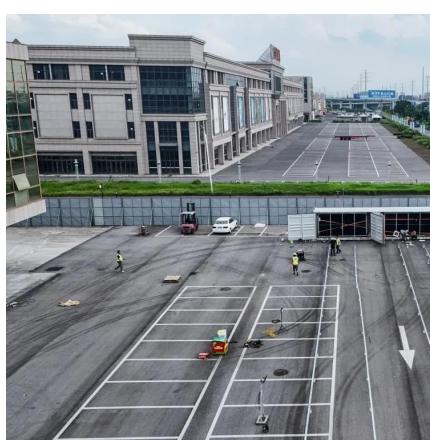


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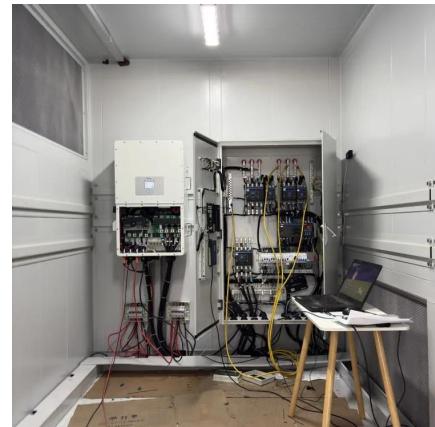
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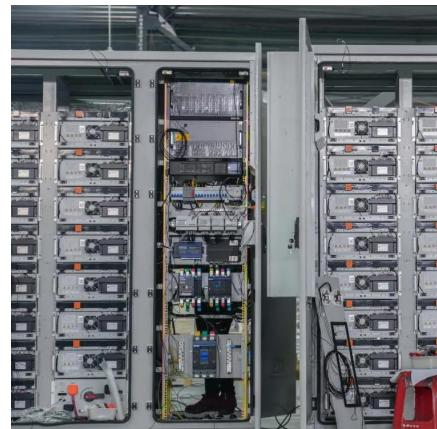
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